BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

BYATARAYANAPURA SUB DIVISOIN

Name of the Work : **Improvements to Drains and Asphalting to Roads in Kogilu Sarrounding Area in Ward No. 05 Byatarayanapura Sub Division.**

Estimated Cost : 55.00 Lakhs

Job Code:

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

ıe of work: Improvements to Drains and Asphalting to Roads in Kogilu ounding Area in Ward No. 05 Byatarayanapura Sub Division.

						Estimate Cost Rs.	5500000.00	
Description of item	**Unit**	**No**	**L**	**B**	**D**	**Qty**	**Rate**	**Amount**
KSRRB 300-1. Earth work excavation by manual means in Ordinary Soil soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications.MORTH chapter 3. No. 143/ Item No. 19.1/ PWD SR 2018-19	Cum							
crass roads		1	350.00	5.50	0.20	385.00		
		1	350.00	5.50	0.20	385.00		
crass roads		2	350.00	0.45	0.35	110.25		
		2	350.00	0.45	0.35	110.25		
		2	180.00	0.45	0.35	56.70		
Culverts		5	6.20	2.10	1.20	78.12		
						1125.32	137.80	**155069.00**
Basic Rate	130.00							
Area Weightage @ 6%	7.80							
Total	**137.80**							
Removing B.S Slab of Drain and stacking Page No. 25/ Item No. 5.32/ PWD SR 2016-17	Sqm							
crass roads		2	350.00	1.65		1155.00		
		2	320.00	1.65		1056.00		
						2211.00		
Deduct 30% Missing Slabs						663.30		
						1547.70	65.72	**101715.00**
Basic Rate	62.00							
Area Weightage @ 6%	3.72							
Total	**65.72**							
Refixing stone slabs of drains and pointing in C.M (1:3) Page No. 25/ Item No. 5.33/ PWD SR 2016-17	Sqm							
		Qty Vide Item No.2				1547.70		
						1547.70	**80.56**	**124683.00**
Basic Rate	76.00							
Area Weightage @ 6%	4.56							
Total	**80.56**							
Providing granite slabs of selected quality roughly dressed and fixed in cement mortar(1:6) including fixing curing etc, complete -do- 7.5 cms thick Page No. 28/ Item No. 5.31.1/ PWD SR 2016-17	**Sqm**							
For Missing slabs (30%)		Missing Slabs				663.30		
						663.30	665.68	**441546.00**
Basic Rate	628.00							
Area Weightage @ 6%	37.68							
Total	**665.68**							

	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	RB-4-1.3 : Providing and laying in ition plain cement concrete of mix M :8 withOPC cement at 180kgs, with 40mm l down size graded granite metal coarse gregates @0.892cum and fine aggregates).57cum machine mixed, concrete laid in ers not, exceeding 15cms, thick, well mpacted, in foundation and plinth, luding cost of all materials, labour, HOM machinery, curing complete as per ecifications. Specification No. KBS 1,4.2, No. 13/ Item No. 4.3/ PWD SR 2018-	Cum							
	or Culverts		5	6.20	2.10	0.15	10.04		
							10.04	5408.12	**54324.00**
	Basic Rate	5102.00							
	Area Weightage @ 6%	306.12							
	Total	**5408.12**							
	KSRB 5.2.3 Providing and constructing granite / trap / basalt Size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 Page No. 25/ Item No. 5.6/ PWD SR 2018-19	cum							
	Culverts		5X2	6.20	0.60	0.50	18.60		
							18.60	4871.76	**90615.00**
	Basic Rate	4596.00							
	Area Weightage @ 6%	275.76							
	Total	**4871.76**							
	KSRB 5.3-3 Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5-1.13 Page No. 25/ Item No. 5.9/ PWD SR 2018-19	Sqm							
	Culverts		5X2	6.20	0.50	0.45	13.95		
							13.95	5811.98	**81077.00**
	Basic Rate	5483.00							
	Area Weightage @ 6%	328.98							
	Total	**5811.98**							
5	KSRB 4-6.7 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1 m in depth including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 17/ Item No. 4.34/ PWD SR 2018-	Sqm							
	For Culverts		5	6.20	0.60		18.60		
	For Sides		5X2	6.20	0.23		14.26		
			5X2	1.65	0.23		3.80		
							36.66	309.52	**11345.00**
	Basic Rate	**292.00**							
	Area Weightage @ 6%	17.52							
	Total	**309.52**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
RB 4-1.7 : : Providing and laying in sition plain cement concrete of mix 1:3:6 hOPC cement @ 220kgs, with 20mm and wn size graded granite metal coarse gregates @0.84cum and fine aggregates 0.56cum machine mixed, concrete laid in yers not, exceeding 15cms, thick, well mpacted, in foundation and plinth, cluding cost of all materials, labour, HOM machinery, curing complete as per pecifications. Specification No. KBS .1,4.2/P No. 13/ Item No. 4.7/ PWD SR	cum							
Culverts		5X2	6.20	0.50	0.15	4.65		
Vent Bed		5	6.20	0.90	0.15	4.19		
						8.84	5627.54	**49719.00**
Basic Rate	5309.00							
Area Weightage @ 6%	318.54							
Total	**5627.54**							
KSRB 15.1.3: Providing FLush pointing to coursed stone masonry with cement mortar 1:3, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. Page No. 115/ Item No. 15.1/ PWD SR 2018-19	Sqm							
Culverts		5X2	6.20		0.50	31.00		
						31.00	223.66	**6933.00**
Basic Rate	211.00							
Area Weightage @ 6%	12.66							
Total	**223.66**							
KSRB 4.2.2 : Providing and laying in position plain cement concrete of mix M20 withOPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.459cum with superplastesisre @ 3lts conforming to IS9103-1999Reffirmed machine mixed exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, return walls, walls(any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour HOM of machinery, curing, complete as per specifications. Specification. No. KBS 4.1,4.6, No. KBS 4.1,4.6, No. 14/ Item No. 4.11/ PWD SR 2018-19	**Cum**							
For Cuvlerts		5	6.20	1.80	0.23	12.83		
						12.83	5998.54	**76985.00**
Basic Rate	5659.00							
Area Weightage @ 6%	339.54							
Total	**5998.54**							

Description of item	Unit	No	L	B	D	Qty	Rate	Amount
RB 4.9.2:providing T.M.T steel nforcement for R.C.C work including aightening, cutting, bending, hooking, cing in position, lapping and / or welding erever required, tying with binding wire d anchoring to the adjoining members nerever necessary complete as per design ps, hooks and wastage shall not be easured and paid) cost pf materials, bour, HOM of machinery complete as per pecifications.Specification No. KBS 4.6.3 age No. 18/ Item No. 4.46.2/ PWD SR 018-19	**Tonne**							
.65Ton/Cum		0.065	12.83			**0.90**	75223.96	**67580.00**
Basic Rate	70966.00							
Area Weightage @ 6%	4257.96							
Total	**75223.96**							
KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH specification NO. 406,P No. 155/ Item No. 20.18/ PWD SR 2018-19	Cum							
crass roads		1	350.00	5.50	0.30	577.50		
		1	350.00	5.50	0.30	577.50		
		1	80.00	0.60	0.30	14.40		
						1169.40	2001.28	**2340297.00**
Basic Rate	1888.00							
Area Weightage @ 6%	113.28							
Total	**2001.28**							
KSRRB 500-4: providing and applying **primer coat** from 7.5 to 9.8 kg and 9.8 to 12.2kg per 10 sqm for surfaces of low and medium porosity respectively over prepared surface of granular base with cut bank M.C-70 or any other bitumen mixed with diesel at 10 kg per 10 sqm heated in bitumen boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specificationsDo- Medium Porosity MORTH chapter 5, No. 158/ Item No. 21.6/ PWD SR 2018-19	Sqm							
crass roads		1	350.00	5.50		1925.00		
		1	350.00	5.50		1925.00		
		1	250.00	5.50		1375.00		
						5225.00	36.04	**188309.00**
Basic Rate	34.00							
Area Weightage @ 6%	2.04							
Total	**36.04**							

Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
2	KSRRB M500-18: Providing and laying semi dense bituminous concrete 25mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction as per MORTH specifications clause No. 500.8 complete in all respects as per specifications. P. No. 159/ Item No. 21.20.1/ PWD SR 2016-17	Cum							
	crass roads		1	350.00	5.50	0.030	57.75		
			1	350.00	5.50	0.030	57.75		
			1	250.00	5.50	0.030	41.25		
							156.75	6429.96	**1007896.00**
	Basic Rate	6066.00							
	Area Weightage @ 6%	363.96							
	Total	**6429.96**							
3	KSRRB M100-2. Loading and Unloading of stone boulders by manual means complete as per specification MORTH-100/chapter-1 Page No. 136/ Item No. 17.1/ PWD SR 2018-19 P-136.	Cum							
			Qty. Vide Item No. 1+2				**1125.32**		
							1125.32	60.42	**67992.00**
	Basic Rate	57.00							
	Area Weightage @ 6%	3.42							
	Total	**60.42**							
							Grand Total		**4866085.00**
4	For 12% Applicable GST								**583930.00**
5	For 1% PMC Charges								**48661.00**
6	Miscesallaneous Charges	L/S							**1324.00**
									5500000.00

ertificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2018-19
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer

Executive Engineer 22/05
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

Assistant Executive Engineer
Byatarayanapura Sub Division

ADMINISTRATIVE APPROVAL
Accorded For Rs. 55.00 Lakhs only
Head of A/c. P3726
Div. Ref. No. 03/20-21 Date 6-5-2020
AE 6/5
EE(BTP) 6/5

Technical Sanction
Accorded For RSSR-a/c only
Head of A/C P3726
CER NO : DY.A Dt: 22.05.2020
TA CE (YNK)